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NOTICE OF ALLOWANCE AND FEE(S) DUE

37462 7590 04/30/2004 LOWRIE, LANDO & ANASTASI RIVERFRONT OFFICE ONE MAIN STREET, ELEVENTH FLOOR CAMBRIDGE, MA 02142

[EXAMINER					
	ΜΑΥΟ Ι	II, WILLIAM H				
٢	ART UNIT	PAPER NUMBER				

2831

DATE MAILED: 04/30/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/585,072	06/01/2000	Gavriel Vexler	736.321US01	5741

TITLE OF INVENTION: TWISTED PAIR CABLE WITH DUAL LAYER INSULATION HAVING IMPROVED TRANSMISSION CHARACTERISTICS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$665	\$0	\$665	07/30/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN <u>THREE MONTHS</u> FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. <u>THIS</u> <u>STATUTORY PERIOD CANNOT BE EXTENDED</u>. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status: A. If the status is the same, pay the TOTAL FEE(S) DUE shown	If the SMALL ENTITY is shown as NO: A. Pay TOTAL FEE(S) DUE shown above, or
above.	
B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the	B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
change in status, or	Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's resp nsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

C mplete and send this f rm, t gether with applicable fee(s), to: Mail

Mail Stop ISSUE FEE C mmissioner f r Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

			or <u>Fax</u>	(703) 746-4000		
INSTRUCTIONS: This for appropriate. All further corr indicated unless corrected b	m should be used for tran espondence including the I elow or directed otherwise	smitting the ISSU Patent, advance ord in Block 1, by (a)	E FEE and PUBL lers and notification specifying a new	ICATION FEE (if requ on of maintenance fees v correspondence address	ired). Blocks 1 through 4 sh vill be mailed to the current of and/or (b) indicating a separ	ould be completed where correspondence address as rate "FEE ADDRESS" for
maintenance fee notifications	s. E ADDRESS (Note: Legibly mark-up	with any corrections or	use Block 1)	Note: A certificate of	mailing can only be used fo	r domestic mailings of the
37462 75	•	-		Loo(c) Tranemittal Th	al paper, such as an assignment of mailing or transmission.	or any other accommanying
LOWRIE, LAND	O & ANASTASI			Ce	rtificate of Mailing or Trans	mission
RIVERFRONT OF ONE MAIN STRE	FICE ET, ELEVENTH FLO	OR		I hereby certify that the States Postal Service y addressed to the Mai transmitted to the USF	his Fee(s) Transmittal is being with sufficient postage for firs 1 Stop ISSUE FEE address TO, on the date indicated belo	deposited with the United t class mail in an envelope above, or being facsimile bw.
CAMBRIDGE, MA	02142					(Depositor's name)
						(Signature)
						(Date)
APPLICATION NO.	FILING DATE	·	FIRST NAMED INV		ATTORNEY DOCKET NO.	CONFIRMATION NO.
					736.321US01	5741
09/585,072	06/01/2000		Gavriel Vex			
TITLE OF INVENTION: TV	WISTED PAIR CABLE WI	TH DUAL LAYER	INSULATION H	AVING IMPROVED TR	ANSMISSION CHARACTE	
APPLN. TYPE	SMALL ENTITY	ISSUE FI	E	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$665		\$0	\$665	07/30/2004
EXAM	INER	ART UN	п	CLASS-SUBCLASS]	
MAYO III, V	VILLIAM H	2831		174-027000	-	
 Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. 			2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.			
3. ASSIGNEE NAME AND	RESIDENCE DATA TO B	E PRINTED ON T	THE PATENT (prin	nt or type)		
PLEASE NOTE: Unless been previously submitted (A) NAME OF ASSIGNI	an assignee is identified be d to the USPTO or is being s	low, no assignee da submitted under sep	ata will appear on parate cover. Comp	the patent. Inclusion of a letion of this form is NO TTY and STATE OR CO	ssignee data is only appropria T a substitute for filing an assi UNTRY)	tte when an assignment has gnment.
Please check the appropriate	assignee category or catego	ories (will not be pr	inted on the patent	; 🖸 individual 🖸	corporation or other private gr	oup entity 🖸 government
4a. The following fee(s) are	enclosed:	4b	. Payment of Fee(s			
Issue Fee				amount of the fee(s) is en		
D Publication Fee	C aular		• •	dit card. Form PTO-2038	harge the required fee(s), or	credit any overpayment, to
	Copies		Deposit Account	Number	(enclose an extra c	opy of this form).
Director for Patents is reques	sted to apply the Issue Fee a	nd Publication Fee	(if any) or to re-ap	ply any previously paid i	issue fee to the application ide	ntified above.
(Authorized Signature)		(Date)				
other than the applicant; interest as shown by the re-	1 Publication Fee (if requir a registered attorney or ag cords of the United States P	atent and Trademar	k Office.	in		
estimated to take 12 minuit completed application for case. Any comments on suggestions for reducing t Patent and Trademark (22313-1450 DO NOT S	tion is required by 37 CFR by the public which is to f y is governed by 35 U.S.C. tes to complete, including g m to the USPTO. Time wi the amount of time you his burden, should be sent Office, U.S. Department END FEES OR COMPLE for Patents, Alexandria, Vir	ill vary depending require to comple to the Chief Infon of Commerce, A ETED FORMS TO	upon the individu te this form and/ mation Officer, U.	al or S.		

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TRANSMIT THIS FORM WITH FEE(S)

OMB 0651-0033 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

UNITED STATES PATENT AND TRADEMARK OFFICE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov						
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RIVERFRONT OFFICE ONE MAIN STREET, ELEVENTH FLOOR			ART UNIT	PAPER NUMBER		
CAMBRIDGE, M			2831			
			DATE MAILED: 04/30/200	4		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

Notic of Allowability	Applicati n N .	Applicant(s)	Applicant(s)	
	09/585,072	VEXLER ET AL.		
	Examin r	Art Unit		
	William H. Mayo III 2831	2831	Br	

The MAILING DATE of this c mmunicati n appears n the cover sh et with th corresp ndence address	
All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included	
nerewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS	
NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiat	tive
of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.	

1. This communication is responsive to <u>April 15, 2004</u>.

- 2. X The allowed claim(s) is/are <u>1,3,5-11 and 13-17</u>.
- 3. \square The drawings filed on <u>07 July 2003</u> are accepted by the Examiner.
- 4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some* c) None of the:
 - 1. $\hfill\square$ Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No.
 - 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) 🗌 including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date _____
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1.
 Notice of References Cited (PTO-892)
- 2.
 Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3. Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date
- 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application (PTO-152)

6. Interview Summary (PTO-413), Paper No./Mail Date

- 7. Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. 🗌 Other _____.

William H. Mayo III Primary Examiner Art Unit: 2831

DETAILED ACTION

Allowable Subject Matter

1. Claims 1, 3, 5-11, and 13-17 are allowed.

2. The following is an examiner's statement of reasons for allowance: This invention deals with a twisted pair cable wherein the first conductor of the first assembly is closer to a second conductor of the second assembly than an outer surface opposite the conductors, wherein the outer edge of the first assembly is farther from the first conductor than the inner edge of the first assembly over the length of the pair (claim 1). This invention also deals with a twisted pair cable wherein the first conductor of the first assembly is closer to a second conductor of the second assembly than an outer surface opposite the conductors along a length of the pair, wherein the outer edge of the first assembly is defined by a surface of the first assembly farthest from the second conductor assembly of the same pair (claim 3). This invention also deals with a twisted pair cable comprising an method of making a twisted pair cable comprising an extrudable polymer having a modulus of elasticity greater than 64 KPSI at room temperature and an extrudable elastomer having a modulus of elasticity lower than 35 KPSI at room temperature (claim 16). This invention also deals with a twisted pair cable comprising two plurality of pairs, wherein each pair comprises two assemblies, wherein a second assembly comprises an inner edge of the second assembly defined by a surface of the second assembly closest to a first assembly in the same pair and an outer edge of the of the second assembly defined by a surface of the second assembly

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farthest from the first assembly in the same pair, wherein the outer edge of the second assembly being farther from the second conductor than the inner edge of the second assembly over the length of the pair (claim 17). The above stated claim limitations, in combination with other claim limitations, are not taught or suggested by the prior art of record. Claims 5-11 and 13-15 are depended upon allowed claim 1, and therefore are allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Response to Arguments

3. Applicant's arguments filed April 8, 2004 have been fully considered and they are persuasive. Specifically, the applicant's argument that Brorein doesn't teach or suggest a twisted pair wherein a first conductor is closer to a second conductor of a second assembly than to an outer surface opposite the conductors over the length of the twisted pair, is persuasive and therefore the claims have been allowed.

Communication

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to William H. Mayo III whose telephone number is (571)-

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272-1978. The examiner can normally be reached on M-F 8:30am-6:00 pm (alternate Fridays off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dean Reichard can be reached on (571) 272-2800 ext 31. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

WHM III April 27, 2004 William H. Mayo III Primary Examiner Art Unit 2831